

Title (en)

A BRAKING SYSTEM FOR DECELERATING LONG PRODUCTS, SUCH AS BARS, EXITING FROM A ROLLING MILL CONFIGURED TO MANUFACTURE SAID LONG PRODUCTS AND METHOD TO OPERATE THE SAME

Title (de)

BREMSSYSTEM ZUM ABBREMSEN LANGER PRODUKTE WIE STANGEN, DIE AUS EINEM ZUR HERSTELLUNG DIESES LANGEN PRODUKTS KONFIGURIERTEN WALZWERK HERAUSKOMMEN, SOWIE BETRIEBSVERFAHREN DAFÜR

Title (fr)

SYSTÈME DE FREINAGE POUR DÉCÉLÉRER DES PRODUITS ALLONGÉS, TELS QUE DES BARRES, SORTANT D'UN LAMINOIR CONÇU POUR FABRIQUER LESDITS PRODUITS LONGS ET SON PROCÉDÉ DE FONCTIONNEMENT

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Application

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Abstract (en)

[origin: EP3050639A1] A contactless braking system -and a related method- for decelerating long products (bi), such as bars, exiting from a rolling mill (100) configured to manufacture said long products (bi), said system comprising: at least one braking module (6) comprising a multiplicity of electromagnets (60) arranged in a series along a braking line (lb), each of said electromagnets (60) being configured to induce a magnetic field (B) and comprising an open magnetic core (61) and a coil (62) around said magnetic core (61), wherein the open magnetic core (61) comprises a gap formed by two opposed poles between which said magnetic field (B) flows, the electromagnets (60) of said braking module (6) being configured in a way that the gap of each open magnetic core (61) is apt to receive and let contactlessly slide therethrough each long product (bi) exiting from said rolling mill (100); and in a way that a braking magnetic force (Fd) is exercised on said long product (bi) by said electromagnets (60) when said long product (bi) .contactlessly slides through said gap, said braking magnetic force (Fd) being opposite to the direction of movement of said long product (bi) exiting from said rolling mill (100).

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